



ศูนย์ความร่วมมืออาเซียน
รับที่... 0056
วันที่... - 1 ก.พ. 2565
เวลา... 14.00 น.

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High-Performance Computer Proposals for Fukagu Trial Projects

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เรียนผู้ประสานงานด้านต่างประเทศในสถาบันอุดมศึกษาไทย

ด้วย Agency for Science, Technology and Research (A*STAR) Computational Resource Centre ประเทศสิงคโปร์ เชิญประเทศสมาชิกอาเซียนเข้าร่วมการทดสอบ Supercomputer Fugaku High Performance Computing เพื่อให้ประเทศสมาชิกอาเซียนได้ทดลองใช้งานระบบ Fugaku และได้รับความรู้การใช้งานระบบเพื่อใช้เป็นทรัพยากรร่วมที่มีศักยภาพสำหรับกิจกรรมด้าน High Performance Computing ในอนาคตของภูมิภาคอาเซียน โดยมีกำหนดการรับ Proposal จากผู้ที่ต้องการเข้าร่วมระหว่างวันที่ 26 ม.ค. - 18 ก.พ. 2565

ผู้สนใจสามารถศึกษารายละเอียดเพิ่มเติม ดาวน์โหลดแบบฟอร์ม Proposal และยื่นใบสมัครผ่านเว็บไซต์ <https://www.a-star.edu.sg/acrc/events/asean-call-for-proposals-for-fugaku-trial-projects>

จึงเรียนมาเพื่อโปรดทราบและพิจารณาประชาสัมพันธ์ให้หน่วยงานที่เกี่ยวข้องทราบด้วย จะขอบคุณยิ่ง

กองการต่างประเทศ สำนักงานปลัดกระทรวงการอุดมศึกษา วิทยาศาสตร์ วิจัยและนวัตกรรม
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ASEAN Call for Proposals for Fugaku Trial Projects



Overview

The A*STAR Computational Resource Centre (A*CRC) is soliciting proposals from ASEAN member states (AMS) for **trial access** to Supercomputer Fugaku for the ASEAN HPC region, as part of an agreement between A*STAR Computational Resource Centre (A*CRC) and RIKEN Center for Computational Science (R-CCS).

Supercomputer Fugaku is a 442 PFlop/s Arm-based parallel supercomputing resource at R-CCS, is currently the #1 Top500 system and is available as part of the High Performance Computing Infrastructure (HPCI) in Japan.

This call for proposals is to give AMS users a chance to test their applications on the Fugaku system and to gain knowledge in its use to evaluate it as a potential shared resource for future ASEAN HPC activities.



Timeline

Application Period:	26 Jan – 18 Feb 2022
Notification of A*CRC Review:	28 Feb 2022
Submission of HPCI Proposal:	Mar 2022
Proposal review by RIST:	Mar – Apr 2022
Final results notification:	Apr/May 2022
Trial access to Fugaku:	Apr/May – Sep/Oct 2022 (estimated)

Call Details

Each user project is required to provide the following information:

- A representative named for the proposal. This person must be a resident within an ASEAN country.
- A brief on plans on the use of the Fugaku supercomputer, including statements and reasons for the purposes of the trial access. Proposals that include software verification, porting, tuning or test runs will be favoured.
- The maximum number of Fugaku nodes the proposal is anticipated to use. Also, state what current or previous HPC resources your applications have used before.
- An estimate of the number of node hours your project intends to use. Note that this proposal will be limited to 100,000 node-hours in total, divided amongst different AMS proposals.
- An estimate of storage requirements for your proposal.

AMS users selected for this call will be required to submit a user report to A*CRC within 35 days after the Fugaku Trial has ended.

Application Submission

Please submit your proposal using the [application form](#) to A*CRC [here](#).
(Respective QR codes below).



We look forward to receiving your applications.

Enquires

Feel free to [contact us](#) with any further enquiries, or you can visit our [Events](#) webpage.

A*CRC Application Form for Fugaku Trial

Proposal Name		
Proposal Representative	Name :	Job Title & Affiliation:

1. Significance and Purpose of the Research

(Describe the purpose of the proposal to trial on Fugaku, including plans and methods to carry out on Fugaku e.g. software verification, porting, tuning or test runs.)

2. Estimated Utilization of Computational Resources

Program Information

Program Name	Maximum Number of Nodes	Utilization History (computational target, system used in the past)
e.g. Application / Software 1 – Name, Version	e.g. 400 nodes	e.g. Used on NSCC ASPIRE 1 using 400 nodes using 80TB of input data.
e.g. Application / Software 2 – Name, Version	e.g. 2,000 nodes	e.g. Used on LANTA Supercomputer, NSTDA, ThaiSC using 2,000 nodes using 100TB of input data.

Requesting Resources

Provider Name/ Computational Resource Name	Amount of Resources to Request	
RIKEN R-CCS / Supercomputer Fugaku	e.g. 40,000 NH for whole proposal. e.g. Application program using 15,000 NH or less.	
	Local Storage	GB

* Note that Fugaku Trials are limited to 100,000 node hours (NH). As the proposal will be combined with other proposals from ASEAN member state (AMS) users, please include, if possible, a second resource request that requires less than 15,000 NHs that we can consider for selection depending on other proposals received from all AMS users.

* It is not necessary to input the request for the local storage of Fugaku in the HPCI Application System. 5TB is allocated by default, and it can be increased per request. However, do indicate if a larger pool of storage is required for your proposal.

Basis of Request for Computational Resources

(Provide a projection of computing resource usage for the trial).

(Example: Calculation of XX – 400 nodes x 12 hours x 15 runs = 72,000 node hours)

Basis of Request for Local Storage

(Provide a projection of storage usage for the trial)

(Example: Use of Software A: 20 GB per run x 15 runs = 500GB)

3. HPCI Shared Storage (Fill out only if you request it)

HPCI shared storage : GB

Basis of the estimate:

4. Research Structure

Project Member	Affiliation	Expertise	Whether to use the resource	Roles/ Experience and Background
Member name 1	e.g. NSTDA	e.g. Bioinformatician	Yes	e.g. 10 years research in plant genomics, verification of data sequences etc.
Member name 2	e.g. IHPC, A*STAR	e.g. CFD modeller	Yes	e.g. Modelling electric automobiles
Collaborator name 1	e.g. University	e.g. Software Engineer	No	e.g software development services and project management etc.

5. Ongoing Project (if applicable)

- Ongoing project ID:
- Ongoing project name:
- Status of the ongoing project (goal achievement status, etc.)

6. Validity to Perform the Proposal

- Is this research likely to lead to accomplishment of research achievements or goals, or full-fledged use of Fugaku?
☒ Yes ☐ No
- Is this a trial proposal to carry out performance verification or performance evaluation of a program in the Fugaku environment?
☒ Yes ☐ No
- Does the implementation of the proposal conform to the Basic Act on Science, Technology, and Innovation, and to socially accepted ideas and rules, such as follows: the implementation of the research proposal and the utilization of its results shall be limited to peaceful purposes?
☒ Yes ☐ No

(If the answers are "No", the proposal will not be allowed to use the HPCI system.)

Important Notes

Eligibility

- The named proposal representative:
 - must have the authority to submit the proposal and to execute the proposal upon selection and award,
 - should be resident within a country of the Association of South-East Asian Nations (ASEAN).
- The named members in Table 4:
 - should be resident within a country of the Association of South-East Asian Nations (ASEAN) or in Japan.
- The proposal must satisfy the terms of use for Supercomputer Fugaku, such as for non-military purposes etc.

Submission of Usage Report

- If selected for the Fugaku Trial call, a user report is to be submitted to A*CRC no more than 35 days after the end of the trial. A*CRC will in turn submit a final project report to RIST within 60 days after the end of the trial.
- The proposal representative must ensure that the proposal and all the work done on Fugaku for the trial have no restrictions for the purpose of submitting the user report to A*CRC and to RIST.